

September 2, 2016

MEMORANDUM FOR: Distribution Email

FROM: Chris Caruso Magee
Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
CPC, OPC, and WPC - corrected

Climate Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of September 5, 2016:

RFC #724 - model-calibration v1.3.1 - Modify the main Matlab script to return an error code of 1 when the script fails, instead of 0. To be implemented on September 6 at 1500Z.

RFC #725 - mpp-driver v1.3.2 - Update the Python plotting script to make the resulting image's title more clear. Also add code to copy NAEFS forecast images to \$WEB_OUT so they'll be visible on the public webpage. This latter part was previously approved in RFC #703 (see below) but is now being folded into this new RFC. To be implemented on September 6 at 1515Z.

RFC #726 – WK34_verification and web page v1.0 - Deploy a new application into operations on the Compute Farm that:

1. creates 1-cat probabilistic forecast binary data from the CPC official Week 3-4 grib2 files;
2. calculates skill scores for the forecast, and produces a set of verification graphics for internal use and web display; and
3. copies a Web page that displays archived Week 3-4 forecasts and the verification graphics to RZDM. To be implemented on September 6 at 1930Z.

RFC #727 – Add a script to make Week-1 average GEFS heights/anoms in the style of the CPC manual blend (as requested by NWS HQ for briefing materials). To be implemented on September 6 at 2000Z.

The following RFCs are in progress:

None

The following RFCs were withdrawn:

RFC #703 – mpp-driver v1.3.1 – Add code to copy NAEFS forecast images to \$WEB_OUT so they'll be visible on the public web page. Was to be implemented on August 15 at 1400Z; withdrawn on August 29 and folded into RFC #725 (see above).

The following NCO RFCs to be implemented the week of September 5, 2016 may affect CPC:

RFC #2248 - Modify the Dataflow mirror utility on NCOSRV to bring in additional NESDIS data (burn files and Arctic images) at the request of CPC and WPC. Was to be implemented on August 25 at 1400Z; postponed to September 6 at 1400Z due to CWD.

The following NCO RFCs are in progress and may affect CPC:

None

Ocean Prediction Center

The following accelerated items were implemented this past week:

RFC #721 - prob_guidance.php v16.08.25 - At the request of Alaska Region for IDSS support, added links to the graphics for GEFS and NAEFS depicting probability of storm force winds by adding the 48kt threshold to the list of links the PHP page creates. The graphics are already on the website, but the link to display them was mistakenly removed in RFC 645. Implemented on August 25 at 1245Z.

RFC #722 - topnews.php and wng.php v2016.08.26 - OPC operations is receiving phone calls about weather.noaa.gov being discontinued. A link and description to OPC's Top News of the Day section was added to provide users a list of alternate links to receive weather data. Implemented on August 26 at 1715Z.

RFC #723 - auto_antarctica.pl, Email_Antarctic.csh, Email_Antarctic.tbl
v2016.09.01 – Ended support for NMFS cruise aboard the RVIB Nathaniel Palmer
off Antarctica since the cruise ended August 31. Implemented on September 1
at 1130Z.

The following will be implemented the week of September 5, 2016:

RFC #728 - Loops/Saving_Loops.shtml and Loops/index.php v2016.08.29 -
OPC's webpage that describes how a loop can be saved is obsolete. It is being
retired and all pages linking to it are being removed. Most users are familiar with
right-clicking an image to save it. To be implemented on September 6 at 1130Z.

RFC #729 – altimeter_buf_2_ascii.pl v2016.08.29 - Update
'altimeter_buf_2_ascii.pl' to remove duplicate lines in the final output files for
NMAP. The duplicates are causing intermittent problems when trying to display
data. To be implemented on September 6 at 1130Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of September 5, 2016 may
affect OPC:

RFC #2240 – product processor v1.1.0 - The production product parser for
forecast.weather.gov is currently ignoring products that are corrections. This is a
bug fix so that WWA (Watches/Warning/Advisory) corrections (COR) will show up
on forecast.weather.gov. Was to be implemented on August 23 at 1400Z;
postponed to September 7 at 1400Z due to CWD.

RFC #2242 - Update NDFDv2 for digital.weather.gov. This is a fix for an issue
where the operational NDFD display web page at <http://digital.weather.gov> and
the NIDS e-staging web page at <http://preview.weather.gov/graphical/> are not
updating with current NDFD forecast guidance images and data. This includes a
fix for a mismatch between the legends and mouse rollover values for ApparentT.
Was to be implemented on August 23 at 1400Z; postponed to September 6 at
1400Z due to CWD.

RFC #2251 – decod_dcgns v3.1.0, decod_dcears v3.3.0, decod_dcaltm v4.0.1, obsproc_satingest v3.1.0 – Implement a new decoder to process GPS precipitable water and zenith total delay data. Update the EARS decoder to process CrIS, ATMS, and IASI data. Update the altimeter decoder to process sea-surface height and wind/wave data from 3 additional satellite sources. Update the obsproc_satingest to: a) produce a new hms prelim file with early cutoff time; b) decode Megha-Tropiques SAPHIR L1A2 brightness temperature data into bufr tank b021/xx242; decode GCOM-W AMSR2 L1B brightness temperature data into bufr tank b021/xx248; c) decode METOP IASI radiance data into bufr tank b021/xx239; d) decode NPP CrIS radiance data and NPP ATMS brightness temperature data into bufr tanks b021/xx212 and b021/xx213 respectively; e) decode ISS RapidScat 25km scatterometer data from KNMI into bufr tank b012 xx255; and f) decode GPM-core GMI L1C-R brightness temperature data into bufr tank b021/xx246. This RFC was previously approved on August 18 for implementation on August 22, but only for the dcgns decoder. This RFC was pulled back to add the dcaltm and obsproc_satingest changes, and RFC #1924 (decod_dcears decoder) was folded into this RFC as well. To be implemented on September 7 at 1300Z.

RFC #2273 – gefs v11.0.6 – Update the GEFS to process select pgrb2bp5 variables so that the 0.5 degree mean and spread gempak files have similar records to the 1.0 degree gempak files. To be implemented on September 6 at 1200Z.

RFC #2281 – Update dataflow on the production WCOSS machines to include pulling in JSON-3 data. To be implemented on September 7 at 1300Z.

RFC #2282 – Make GDAS meta files once again available on NCOSRV. These have been unavailable on NCOSRV since May 2016, when the GDAS was last upgraded. To be implemented on September 7 at 1400Z.

The following NCO RFCs are in progress and may affect OPC:

None

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of September 5, 2016:

None

The following RFCs are in progress:

RFC #708 - The Day 4-7 Winter Weather scripts will be upgraded. The cron scripts which run on the Compute Farm and the interactive scripts run by WPC forecasters will be altered to synchronize times stamps for NDFD delivery. Code will also be added to the interactive script run by the forecasters to convert grid files to grib2, and disseminate via DBNET Alert to NCO-Silver Spring. Implementation began on August 18 at 1600Z and was scheduled to be completed by September 1.

RFC #709 - The 1-hour snowfall rate scripts will be upgraded to use hourly max snowfall rate and a rime modified Baxter climatological SLR (Snow-to-Liquid Ratio) from the NAMX. A script to generate model implicit snowfall members from the GEFS, ECENS, and SREF will be implemented, as well as a script to compute a super blend of deterministic model implicit snowfall solutions. Both the deterministic and probabilistic forecast output will be evaluated in the 2017 WWE (Winter Weather Experiment) and objectively verified from October through May. Implementation began on August 18 at 2100Z and is scheduled to be completed by September 15.

RFC #720 - WPC Winter Weather Desk Scripts v2016.08.24 - Upgrade scripts used by WPC's winter weather desk to: 1.) improve ice liquid ratio calculations using the Freezing Rain Accumulation Model; and 2.) include generation and dissemination of GRIB2 files containing the standard deviations of WPC's probabilistic snow and ice forecasts. Implementation began on August 24 at 1300Z and should be completed by September 14 at 1300Z.

The following RFCs were delayed:

RFC #719 - WPC Winter Weather Desk Scripts wwx_md1.sh, wwx_ecens.sh v2016.08.22 - Upgrade the WPC winter weather ensemble to: 1.) add all 21 GEFS ensemble members at half-degree resolution; 2.) add ARW and NMMB high-resolution window runs; and 3.) improve the freezing rain ice liquid ratio using the Freezing Rain Accumulation Model (FRAM). The winter weather ensemble is used to generate WPC's probabilistic winter weather products and probabilistic QPF products. Was to be implemented on August 22 at 1300Z ; delayed to September 12 at 1300Z to allow for adjustments to be made to the new script and allow for additional testing. This should be completed by September 23.

The following NCO RFCs to be implemented the week of September 5, 2016 may affect WPC:

RFC #2240 – product processor v1.1.0 - The production product parser for forecast.weather.gov is currently ignoring products that are corrections. This is a bug fix so that WWA (Watches/Warning/Advisory) corrections (COR) will show up on forecast.weather.gov. Was to be implemented on August 23 at 1400Z; postponed to September 7 at 1400Z due to CWD.

RFC #2242 - Update NDFDv2 for digital.weather.gov. This is a fix for an issue where the operational NDFD display web page at <http://digital.weather.gov> and the NIDS e-staging web page at <http://preview.weather.gov/graphical/> are not updating with current NDFD forecast guidance images and data. This includes a fix for a mismatch between the legends and mouse rollover values for ApparentT. Was to be implemented on August 23 at 1400Z; postponed to September 6 at 1400Z due to CWD.

RFC #2248 - Modify the Dataflow mirror utility on NCOSRV to bring in additional NESDIS data (burn files and Arctic images) at the request of CPC and WPC. Was to be implemented on August 25 at 1400Z; postponed to September 6 at 1400Z due to CWD.

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RFC #2273 – gefs v11.0.6 – Update the GEFS to process select pgrb2bp5 variables so that the 0.5 degree mean and spread gempak files have similar

records to the 1.0 degree gempak files. To be implemented on September 6 at 1200Z.

RFC #2282 – Make GDAS meta files once again available on NCOSRV. These have been unavailable on NCOSRV since May 2016, when the GDAS was last upgraded. To be implemented on September 7 at 1400Z.

The following NCO RFCs are in progress and may affect WPC:

None

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.

Users who wish to view their network utilization via the Scrutinizer appliance may request access from NCO/IWSB. Please send an account request to the NCWCP Helpdesk at NCWCP.helpdesk@noaa.gov.